FORM P	TO-139	90 (Modified) U.S. PATENT AND TRADEM	ARK OFFICE; U.S. DEPARTMENT OF COMMERCE	ATTORNEY'S DOCKET NUMBER						
(KEV. 12	TR	ANSMITTAL LETTER <sup>-</sup>	TO THE UNITED STATES	112857-454						
	Ε	DESIGNATED/ELECTE	D OFFICE (DO/EO/US)	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)						
C		CERNING A SUBMISS	Unknown 10. 1536934							
		ONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED						
		PCT/JP03/14975	November 25, 2003	December 10, 2002						
		NVENTION								
POLY	MEI	R ACTUATOR								
	_	T(S) FOR DO/EO/US								
Ito et :	aı.									
A 17		and the submitted to the United Chat-	a Danisa atad/Elastad Office (DO/EO/HS) the f	collecting items and other information:						
Applica	ant ne	erewith submits to the United State	s Designated/Elected Office (DO/EO/US) the f	ollowing terms and other information.						
1.	$\boxtimes$	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.								
2.		This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.								
3.		This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.								
4.		The US has been elected (Article 31).								
5.	$\boxtimes$	A copy of the International Applica	ation as filed (35 U.S.C. 371 (c)(2))							
		a. 🛛 is attached hereto (requ	ired only if not communicated by the Internation	onal Bureau).						
	b.  has been communicated by the International Bureau.									
		c.  is not required, as the a	pplication was filed in the United States Receiv	ring Office (RO/US).						
6.	$\boxtimes$									
		a. 🗵 is attached hereto.								
		b.  has been previously submitted under 35 U.S.C. 154(d)(4).								
7.	$\boxtimes$	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))								
		a.   are attached hereto (required only if not communicated by the International Bureau).								
		b.  have been communicated by the International Bureau.								
		c. have not been made; however, the time limit for making such amendments has NOT expired.								
		d. 🛛 have not been made and will not be made.								
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).								
	×	An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).								
10.	, 	An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).								
11.		A copy of the International Preliminary Examination Report (PCT/IPEA/409).								
12.	$\boxtimes$	A copy of the International Search Report (PCT/ISA/210).								
Ite	ms 1	3 to 23 below concern documen	t(s) or information included:							
13.		An Information Disclosure Stater	ment under 37 CFR 1.97 and 1.98.							
14.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.								
15.	$\boxtimes$	A FIRST preliminary amendment.								
16.		A SECOND or SUBSEQUENT preliminary amendment.								
17.		A substitute specification.								
18,		A power of attorney and/or change of address letter.								
19.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.								
20.		A second copy of the published International Application under 35 U.S.C. 154(d)(4).								
21.		A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).								
22.	$\boxtimes$	Express Mail Label No. EV 551757901 US								
23.	$\boxtimes$	Other items or information:								
		Formal Drawings (4 sheets);								
		Form PCT/IB/301, 304, 308, PCT/ Return receipt postcard.	/ISA/220, 210							

JC06 Rec'd PCT/PTO 27 MAY 2005

PTO-1390 (Rev. 12-2004)

Approved for use through 3/31/2007, OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (IRROVIN) Sep 37-9FRg. 5) INTERNATIONAL APPLICATION NO.						ATTORNEY'S DOCKET NUMBER					
4.4	Unknown	24	PCT/JP03/14975				112857-454				
24. The following	fees are submitte		Applicant use	Office use							
☐ a) Basic national fee							\$ \$300.00				
	ion fee	\$200.00	\$ \$200.00								
C) Search fe	e	\$ \$500.00									
TOTA	AL OF ABOVE	\$ \$1,000.00									
	e for specification ting or computer p h additional 50 she	<u> </u>									
Total Sheets Extra Sheets Numbe			er of each additional 50 or RATE thereof (round up to a whole								
- 100 =	- 100 = /50 =		× \$250.00			\$250.00	\$ \$0.00				
Surcharge of \$13 earliest claimed p	0.00 for furnishing riority date (37 Cl	n the	\$								
CLAIMS	NUMBER F	FILED NUMBER EXTRA		RATE		TE		•			
Total claims	13	- 20 =	0	x		\$50.00	\$ \$0.00				
Independent clair	ns 1	- 3=	0	x		\$200.00	\$ \$0.00				
MULTIPLE DEPE	NDENT CLAIMS	(if applicable)		+		\$360.00	\$ \$0.00				
		TOTA	AL OF ABOVE CA	<b>ALC</b>	ULA	TIONS =	\$ \$1,000.00				
Applicant cla	ims small entity s	bove are	\$ \$0.00								
	<u></u>			S	SUB	TOTAL =	\$ \$1,000.00				
Processing fee of	\$130.00 for furnised priority date (3	hing the Engl	ish translation later th	an 3	0 moi	nths from	\$ \$0.00				
0001	oo p, aa.a (e	<u></u>		IATI	ONA	AL FEE =	\$ \$1,000.00				
Fee for recording accompanied by	the enclosed assi	gnment (37 C	FR 1.21(h)). The ass CFR 3.28, 3.31). \$40	ignm per	ent n	nust be	\$ \$0.00				
		\$ \$1,000.00									
			\$								
			Amou	unt t	o be	charged:		\$			
a. 🗵 A check	in the amount of \$	\$1,000.	00 to cover the a	bove	fees	is enclosed		•			
	As a supplied to the state of t										
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.											
SEND ALL CORI	RESPONDENCE	го:									
Thomas C. Bass				SIGNATURE							
Bell, Boyd & Ll	oyd LLC		Thomas C			Thomas C	. Basso				
P.O. Box 1135 Chicago, IL 60	690-1135		NAME			NAME					
46,541											
3. i		TION NUMBER									

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.:

Applicant(s): Ito et al.

Unknown Herewith

Filed: Title:

POLYMER ACTUATOR

Art Unit:

Unknown

Examiner:

Unknown

Docket No.:

112857-454

Mail Stop PCT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

## **CERTIFICATE OF MAILING BY EXPRESS MAIL UNDER 37 CFR 1.10**

Sir:

I hereby certify that the following documents relating to the above-identified application:

- Transmittal Letter (dup.);
- Int'l App. as filed including Int'l Search Report (26 pgs.);
- English Trans. of Int'l App. as filed (30 pgs.) including 8 sheets of Formal Drawings:
- 4. Unexecuted Dec. and POA (3 pgs.);
- 5. Preliminary Amendment (39 pgs.);
- 6. Form PCT/IB/301, 304, 308, PCT/ISA/220, 210;
- 7. Check in the amount of \$1,000.00; and
- 8. Return receipt postcard.

are being deposited with the United States Postal Service with sufficient postage as

Express Mail in an envelope addressed to:

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

on May 27, 2005.

Respectfully submitted,

BELL, BOYD & LLOYD LLC

Heather Foster

Name of Person Mailing Correspondence

EV 551757901 US

Express Mail Mailing Label Number